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Serial No. 10/081,922
Fax: (571) 273-8300
Atty Docket No. RGT 9771

AMENDMENTS TO THE CLAIMS

Claims 1-22 (Cancelled)

23. (Currently Amended) A method of transfecting antigen presenting cells, the steps comprising selecting a gene delivery complex that targets transfects antigen presenting cells, comprising DNA and ~~one or more compounds selected from the group consisting of a sugars, or~~ polyethylenimine, ~~and or~~ polyethylenimine derivatives, and administering the complex by applying the complex without the use of a needle to the skin or mucosa surfaces of an animal, wherein said DNA comprises a nucleic acid sequence encoding at least one immunogenic protein operatively linked to a promoter, and whereby antigen presenting cells of said skin or mucosa are transfected.

24. (Currently Amended) The method of Claim 23, wherein the complex comprises DNA and ~~compound is selected from the group consisting of glucose and or a~~ polyethylenimine derivatives.

25. (Previously Presented) The method of Claim 24, wherein the polyethylenimine derivative targets the mannose receptor found on the surface of antigen presenting cells.

26. (Previously Presented) The method of Claim 25, wherein the derivative is mannosylated polyethylenimine.

27. (Cancelled).

28. (Previously Presented) The method of Claim 23, wherein the complex is electrostatically neutral.

29. (Cancelled)

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30. (Currently Amended) The method of Claim ~~28~~26, wherein the complex comprises a 5:1 ratio of mannosylated polyethylenimine ~~derivative~~ nitrogen per DNA phosphate.
31. (Currently Amended) The method of Claim 23, wherein the gene delivery complex is ~~formulated in~~ added to a glucose solution.
32. (Previously Presented) The method of Claim 31, wherein the glucose solution is 5-10% glucose.
33. (Previously Presented) The method of Claim 32, wherein the glucose solution is 8% glucose.
34. (Cancelled)
35. (Previously Presented) The method of Claim 23, further comprising one or more steps selected from the group consisting of receptor stimulation, toxin activation, tissue injury and cell injury.
36. - 39 (Cancelled)
40. (Previously Presented) The method of Claim 23, wherein the DNA is a plasmid.
41. (Previously Presented) The method of Claim 23, wherein the cells are Langerhans cells.
42. (Currently Amended) The method of Claim ~~29~~ 44, wherein the complex comprises a 3:1 ratio of polyethylenimine nitrogen per DNA phosphate.
43. (Currently Amended) The method of Claim ~~23~~ 25, wherein the derivative is a sugar-modified polyethylenimine.
44. (New) The method of Claim 23, wherein the complex comprises DNA and polyethylenimine.